

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	1	vitamin d receptor thymine	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2005/06/09 10:22
L3	0	interleukin-6 cytokine	US-PGPUB; USPAT; EPO; JPO; DERWENT	SAME	ON	2005/06/09 10:20
L4	16	interleukin-6 polymorphism	US-PGPUB; USPAT; EPO; JPO; DERWENT	SAME	ON	2005/06/09 10:21
L6	12	l4 and bone	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/06/09 10:21
L7	85	vitamin d receptor polymorphism	US-PGPUB; USPAT; EPO; JPO; DERWENT	SAME	ON	2005/06/09 10:22
L8	59	l7 and bone	US-PGPUB; USPAT; EPO; JPO; DERWENT	SAME	ON	2005/06/09 10:24
L9	28	l8 and vitamin.clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT	SAME	ON	2005/06/09 10:24
S1	2046	vitamin d receptor	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2005/06/09 09:40
S2	5505	interleukin-6	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2005/06/09 09:40
S3	6920	bone density	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2005/06/08 17:19
S4	1	S1 S2 S3	US-PGPUB; USPAT; EPO; JPO; DERWENT	SAME	ON	2005/06/08 17:20
S5	8	DePhillipo John	US-PGPUB; USPAT; EPO; JPO; DERWENT	NEAR	ON	2005/06/08 17:20
S6	21	Ricciardi Robert	US-PGPUB; USPAT; EPO; JPO; DERWENT	NEAR	ON	2005/06/08 17:20

S7	1	S6 and S3	US-PGPUB; USPAT; EPO; JPO; DERWENT	NEAR	ON	2005/06/08 17:21
S8	1	S5 and S3	US-PGPUB; USPAT; EPO; JPO; DERWENT	NEAR	ON	2005/06/08 17:21
S9	22	S1 and S2 and S3	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2005/06/08 17:21
S10	7	S1 S2	US-PGPUB; USPAT; EPO; JPO; DERWENT	SAME	ON	2005/06/08 17:24
S11	116	S1 and S2	US-PGPUB; USPAT; EPO; JPO; DERWENT	SAME	ON	2005/06/08 17:25
S13	99	S1 and S2 and bone	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/06/08 17:27
S14	74	S13 and (diagnostic assessing evaluation susceptibility)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/06/08 17:27
S15	4	S1 SAME S2 and bone	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/06/08 17:27

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(FILE 'HOME' ENTERED AT 10:03:41 ON 09 JUN 2005)

FILE 'MEDLINE, CANCERLIT, AGRICOLA, CAPLUS, SCISEARCH' ENTERED AT  
10:03:51 ON 09 JUN 2005

L1 10557 S (VITAMIN D RECEPTOR) OR VDR  
L2 133068 S INTERLEUKIN-6 OR INTERLEUKIN(2W)6 OR IL-6 OR IL(2W)6  
L3 1045085 S BONE  
L4 52 S L1 (L) L2 (L) L3  
L5 29 DUP REM L4 (23 DUPLICATES REMOVED)  
L6 18 S L5 AND PY<=2001  
L7 18 FOCUS L6 1-

FILE 'STNGUIDE' ENTERED AT 10:10:51 ON 09 JUN 2005

FILE 'MEDLINE, CANCERLIT, AGRICOLA, CAPLUS, SCISEARCH' ENTERED AT  
10:12:38 ON 09 JUN 2005

L8 16 S L1 (L) THYMINE  
L9 2 S L2 (L) CYTOCINE  
L10 6 DUP REM L8 (10 DUPLICATES REMOVED)  
L11 2 DUP REM L9 (0 DUPLICATES REMOVED)  
E DEPHILLIPO JOHN?/AU  
L12 1 S E1  
L13 5 S E2  
L14 6 S L12 OR L13  
L15 6 DUP REM L14 (0 DUPLICATES REMOVED)  
L16 1 S L15 AND BONE  
E RICCIARDI ROBERT?/AU  
L17 86 S E1  
L18 1 S E2  
L19 87 S L17 OR L18  
L20 2 S L19 AND BONE  
L21 2 DUP REM L20 (0 DUPLICATES REMOVED)

=> d an ti so au ab pi 121

L21 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2005 ACS on STN  
AN 2004:513123 CAPLUS  
DN 141:66191

TI Methods and statistical analysis for detecting polymorphisms associated  
with increased predisposition for **bone** density disorders and  
diagnostic and drug screening applications

SO U.S. Pat. Appl. Publ., 14 pp.  
CODEN: USXXCO

IN Dephillipo, John R.; Ricciardi, Robert P.

AB The present invention provides methods and statistical anal. for detecting  
polymorphisms associated with increased predisposition for **bone** d.  
disorders and diagnostic applications. The methods involve assessing  
occurrence in the human's genome of one or more polymorphisms (e.g.,  
single nucleotide polymorphisms) and tetranucleotide repeats that occur in  
one or more genes associated with **bone** d. regulation and that are  
associated with a disorder (i.e., any disorder) in humans. Preferred  
assessment and scoring methods are disclosed, as are kits for performing  
the methods. Cytosine residue in codon encoding residue 10 in TGF $\beta$   
resulting in proline substitution is associated with **bone** d.  
disorders. Occurrence of thymine residue 8 residues upstream of normal  
start codon of vitamin D receptor gene resulting in 3 addnl. amino acids  
at N-terminus is associated with **bone** d. disorders. Occurrence of  
thymine residue in gene coding for  $\alpha$ 1 subunit of type 1 collagen  
thereby altering recognition site for transcription factor Sp1 is associated  
with **bone** d. disorders. Occurrence of cytosine residue at  
position -174 of interleukin 6 gene promoter is associated with **bone**  
d. disorders. Occurrence of guanine residue at codon corresponding to  
amino acid 986 of calcium receptor gene is associated with **bone** d.  
disorders. Occurrence of thymine residue at position corresponding to  
+1417 of cDNA for Pth receptor is associated with **bone** d.  
disorders. Occurrence of thymine residue corresponding to amino acid  
residue 447 of calcitonin receptor gene is associated with **bone** d.

disorders. Occurrence of thymine residue at position +1377 of calcitonin receptor gene is associated with bone d. disorders. Occurrence of cytosine residue at first nucleotide position of intron 2 of PTH gene is associated with bone d. disorders. Occurrence of tetranucleotide simple tandem repeat in intron 4 of aromatase cytochrome P 450 gene is associated with bone d. disorders. Occurrence of thymine-adenine repeat at position -1174 upstream of exon 1 of estrogen receptor gene is associated with bone d. disorders. Occurrence of cytosine-adenine repeat at position 947-984 residues upstream of transcription start site of insulin growth factor 1 gene is associated with bone d. disorders.

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	US 2004121320	A1	20040624	US 2001-924011	20010807